

CEN-IO-RY-104

Wired Ethernet Module with 4 Relay Ports

- > Compact, cost-effective wired Ethernet I/O module
- > Provides four relay ports
- > Installer setup via Crestron Toolbox™ software or web browser
- > Supports TLS 1.2, Local Authentication, and SSL security protocols
- > PoE (Power over Ethernet) network powered
- > Compact, stackable “IFE micro” form factor
- > Surface or DIN rail mountable
- > Available rack mount and pole mount options ^[1]



The Crestron® CEN-IO-RY-104 is a compact and cost-effective wired I/O module designed to easily expand the available relay ports within a commercial or residential system. A small form factor allows the CEN-IO-RY-104 to be placed just about anywhere, with the option to attach it to a flat surface or DIN rail using the included mounting bracket. The four onboard relay ports enable direct integration with all kinds of third-party equipment.

The CEN-IO-RY-104 communicates to the local network using the available LAN connection, allowing the connected equipment to be remotely controlled and monitored from a computer or tablet. Power is conveniently supplied to the CEN-IO-RY-104 via PoE (Power over Ethernet) or a Crestron control system, eliminating the need for a local power supply or extra wiring.

Security Protocols

The CEN-IO-RY-104 supports the following security protocols to help protect against service interruptions and malicious intrusions:

- TLS 1.2 for web server and control system connections
- Local Authentication for console, web server, and control system connections
- SSL for console connections

Power over Ethernet

Using PoE technology, the CEN-IO-RY-104 gets its operating power directly through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE injector ([PWE-4803RU](#)) simply connects in line with the LAN cable at any convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-16](#)) may also be used to provide a total networking solution with built-in PoE. All PoE injectors and switches are sold separately.

Integrator Friendly Enclosure

The CEN-IO-RY-104 features the Crestron IFE form factor, a compact “Integrator Friendly Enclosure” design that fits almost anywhere and enables a variety of installation options. Its shape allows multiple CEN-IO and other IFE compliant devices to be stacked together. Using the included mounting bracket, it can be fastened to any flat surface or snapped onto a standard DIN rail. Rack mount and pole mount kits are also available.^[1]

SPECIFICATIONS

Communications

Ethernet: 100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, SSL, TLS, IEEE 802.3af and 802.3at Type 1 compliant

Connectors

LAN PoE: (1) 8-pin RJ45 connector, female; 100Base-TX Ethernet port; PoE (Power over Ethernet) PD (Powered Device) port

RELAY: (1) 8-pin 3.5 mm detachable terminal block; Comprises (4) normally open, isolated relays; Rated 1 Amp, 30 Volts AC/DC; MOV arc suppression across contacts

G: (1) 4-40 screw; Chassis ground lug

Controls & Indicators

PWR: (1) Bicolor green/amber LED, indicates that power is present, amber indicates that the device is booting and not yet ready to operate, green indicates that device is ready to operate

ONLINE: (1) Green LED, indicates that the device is connected to a Crestron control system via Ethernet

SETUP: (1) Red LED and (1) recessed pushbutton for Ethernet setup, LED indicates that the SETUP pushbutton has been pressed (times out automatically)^[2]

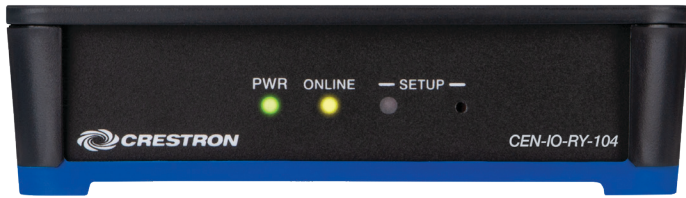
LAN PoE: (2) Bicolor LEDs, green LED indicates 100Mbps Ethernet link status, amber LED indicates Ethernet activity

Power

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 0 (12.95 W) PoE Powered Device

Power Consumption: 3.1 Watts

CEN-IO-RY-104 Wired Ethernet Module with 4 Relay Ports



Front View



Rear View

Environmental

Temperature: 41 to 104 °F (5 to 40 °C)

Humidity: 10% to 90% RH (noncondensing)

Heat Dissipation: 11 BTU/hr

Construction

Enclosure: IFE micro form factor, black and blue plastic

Mounting: Freestanding, stackable, surface mount, or 35 mm DIN EN 60715 rail mount; occupies 8 DIN module spaces (144 mm); surface/DIN rail mounting bracket included, optional rack mount and pole mount kits sold separately

Dimensions

Height: 1.35 in. (34 mm), 1.77 in. (45 mm) with bracket

Width: 5.04 in. (128 mm), 5.36 in. (136 mm) with bracket

Depth: 2.86 in. (73 mm), 3.33 in. (85 mm) with bracket

Weight

6.4 oz (180 g)

Compliance

UL Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

Notes:

1. Item(s) sold separately.
2. A different IP address may be set for the module using Crestron Toolbox™ software.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, visit <https://www.crestron.com/opensource>.

Crestron, the Crestron logo, and Crestron Toolbox are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice.
©2019 Crestron Electronics, Inc.

MODELS & ACCESSORIES

Available Models

CEN-IO-RY-104: Wired Ethernet Module with 4 Relay Ports

Available Accessories

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-16: 16-Port Managed PoE Switch

RMK-IFE-1U: IFE Rack Mount Kit

PLMK-IFE-101: IFE Pole Mount Kit

CEN-IO-RY-104 Wired Ethernet Module with 4 Relay Ports

